AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A hydrodynamic and hydrostatic hybrid bearing comprises:
 - a housing containing a lubricant;
- a bushing placed in the housing having a plurality of dynamic pressure generating grooves openings that penetrate completely through the bushing for, said bushing storing the lubricant; and
 - a shaft rotatably installed in the bushing;

wherein the lubricant produces hydrodynamic pressure between the grooves openings and the shaft when the shaft rotates relative to the bushing.

- 2. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the housing comprises a porous material for storing a lubricant.
- 3. (Currently Amended) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein a pre-pressure is applied to the housing for making the lubricant pass through the greeves openings and to be present between the bushing and the shaft.

- 4. Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 3, wherein the housing further comprises a sealed unit to maintain the pre-pressure.
- 5. Previously Presented) The hydrodynamic and hydrostatic hybrid belaring of claim 4, wherein the sealed unit comprises a sealing glue.
- 6. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the bushing is a cylinder-shaped bushing.
- 7. (Furrently Amended) The hydrodynamic and hydrostatic hybrid bearing o: claim 1, wherein the dynamic pressure generating greeves openings are two pairs of herringbone grooves.
- 8. (Fithdrawn Currently Amended) The manufacturing method of the hydrodynamic and hydrostatic hybrid bearing comprises the following steps:

iforming a bushing;

processing a plurality of dynamic pressure generating grooves openings that completely penetrate through the bushing;

integrating the bushing into a housing containing a lubricant; installing a shaft in the bushing; and

app ying a pre-pressure to the housing and sealing the housing.

- 9. Withdrawn) The manufacturing method as claim 8, wherein the bushing is a cylinder-shaped bushing.
- as claim 8, wherein the dynamic pressure generating grooves openings are processed by a cutting processing.
- as claim 8, wherein the dynamic pressure generating grooves openings are formed by an etching process.
- 12. Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the dynamic pressure generating groeves openings are formed by a plastic injection process.
- 13. Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves openings comprise two pairs of herringbone grooves.
- 14. (Withdrawn Currently Amended) The manufacturing method as claim B, wherein lubricant produces a hydrodynamic pressure

between the dynamic pressure generating grooves openings and the shaft when the shaft rotates relative to the bushing.

- 15. (Withdrawn) The manufacturing method as claim 8, wherein the housing contains porous material for storing the lubricant.
- 16. (Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the pre-pressure makes the lubricant pass through the greeves openings and be maintained between the bushing and shaft.
- 17. (Withdrawn Previously Presented) The manufacturing method as claim 8, wherein the bushing is combined with the housing by being inserted directly into the housing.
- 18. (Withdrawn Previously Presented) The manufacturing method as claim 8, wherein the bushing is combined with the housing by extruding and sintering.
- 19. Previously Presented) The hydrodynamic and hydrostatic hybrid beginning of claim 3, wherein the pre-pressure is applied by an external device after the shaft is in the bushing.

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